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ALEXANDRIA, VA 22320				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/661,621	AOKI ET AL.
Examiner	Art Unit	
Mark R. Milia	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-32 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 15 September 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____
- 5) Notice of Informal Patent Application
- 6) Other: ____

DETAILED ACTION

Drawings

1. The drawings are objected to because in Fig. 6A, reference character **C_{B12}** should be **C_{B13}**. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities: On page 64, line 1, it is believed that "screen" should be replaced with "scanner". Appropriate correction is required.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 30-32 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 30-32 are drawn to functional descriptive material NOT claimed as residing on a computer readable medium.

Claims 30-32, while defining a computer program product, do not define a "computer-readable medium" and is thus non-statutory for that reasons. A computer program product can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to recite "A computer-readable medium storing a system control program..." or some similar amendment to embody the program on "computer-readable medium" in order to make the claim statutory.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-3, 6-9, 11, 16-18, 21-24, and 27-32 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 7,142,318 to Lopez et al.

Regarding claims 1 and 30, Lopez discloses a communication system and program used in a state where the communication system is connected to a network, comprising: an access unit configured to access a Web page through the network (see column 3 lines 40-65 and column 4 lines 20-30), a data extraction unit configured to extract access data from the Web page accessed by the access unit in order to use the access data for accessing access destination pages accessible through the Web page (see column 4 lines 38-62, column 6 line 52-column 7 line 36, and column 10 line 28-column 11 line 33), a printing unit configured to print an image of the Web page accessed by the access unit, together with an entry column (user-designation area **54**) and a specific code (identity marker **60**), on a printing medium, the entry column being provided for making a user to enter a command content for requesting a process for the access data extracted by the data extraction unit, the specific code being provided for

specifying correspondence of the entry column to the access data (see column 4 line 63-column 5 line 7 and column 11 lines 26-46), a reading unit configured to read the command content entered in the entry column of the printing medium and the specific code from the printing medium printed by the printing unit (see column 5 lines 8-14, column 6 lines 21-30, and column 11 lines 26-46), a data specifying unit configured to specify the access data corresponding to the entry column having the command content read by the reading unit, on the basis of the specific code read together with the command content (see column 5 lines 15-35 and column 11 lines 26-46), and a process execution unit configured to execute a process corresponding to the command content read by the reading unit, for the access data specified by the data specifying unit (see column 5 lines 15-35 and column 11 lines 26-46).

Regarding claims 17 and 31, Lopez discloses a communication terminal and program used in a state where the communication terminal is connected to a network, comprising: an access unit configured to access a Web page through the network (see column 3 lines 40-65 and column 4 lines 20-30), a data extraction unit configured to extract access data from the Web page accessed by the access unit in order to use the access data for accessing access destination pages accessible through the Web page (see column 4 lines 38-62, column 6 line 52-column 7 line 36, and column 10 line 28-column 11 line 33), and a printing unit configured to print an image of the Web page accessed by the access unit, together with an entry column and a specific code, on a printing medium, the entry column being provided for making a user to enter a command content for requesting a process for the access data extracted by the data

extraction unit, the specific code being provided for specifying correspondence of the entry column to the access data (see column 4 line 63-column 5 line 7 and column 11 lines 26-46).

Regarding claims 22 and 32, Lopez discloses a communication terminal and program used in a state where the communication terminal is connected to a network, comprising: a reading unit configured to read a command content entered in an entry column of a recording medium and a specific code from the recording medium on which an image of a Web page is printed together with the entry column and the specific code, the entry column being provided for making a user to enter the command content for requesting a process for access data for accessing access destination pages accessible through the Web page, the specific code being provided for specifying correspondence of the entry column to the access data (see column 4 line 63-column 5 line 14, column 6 lines 21-30, and column 11 lines 26-46), a data specifying unit configured to specify the access data corresponding to the entry column having the command content read by the reading unit, on the basis of the specific code read together with the command content (see column 5 lines 15-35 and column 11 lines 26-46), and a process execution unit configured to execute a process corresponding to the command content read by the reading unit, for the access data specified by the data specifying unit (see column 5 lines 15-35 and column 11 lines 26-46).

Regarding claim 2, Lopez further discloses wherein when the command content read by the reading unit includes a request to print the access destination page, the process execution unit instructs the access unit to access the access destination page

on the basis of the access data and instructs the printing unit to print the access destination page accessed by the access unit (see column 5 lines 15-35).

Regarding claims 3 and 24, Lopez further discloses wherein when the command content read by the reading unit includes a request to print a specific region of the access destination page, the process execution unit instructs the access unit to access the access destination page on the basis of the access data and instructs the printing unit to print the specific region of the access destination page accessed by the access unit (see column 4 lines 38-62 and column 5 lines 15-35).

Regarding claim 6, Lopez further discloses wherein the printing unit prints the entry column in which the process requested by the command content is decided according to respective entry positions of the entry column (see column 4 line 38-column 5 line 7 and column 11 lines 26-46), the reading unit reads the entry position of the command content in the entry column together with the specific code from the printing medium printed by the printing unit (see column 5 lines 15-35), and the process execution unit executes processes corresponding to the entry position read by the reading unit, for the access data specified by the data specifying unit (see column 5 lines 15-35).

Regarding claim 7, Lopez further discloses wherein the printing unit prints the entry column for making the user to selectively enter the command content from a plurality of command contents (see column 4 line 38-column 5 line 7 and column 11 lines 26-46).

Regarding claim 8, Lopez further discloses wherein the entry column comprises a plurality of individual entry columns in which the process requested by the command content is decided according to respective entry positions of the individual entry columns (see column 4 line 38-column 5 line 7 and column 11 lines 26-46).

Regarding claim 9, Lopez further discloses wherein the printing unit configures at least two printing areas on the printing medium, prints the image of the Web page accessed by the access unit to one printing area and prints the entry column and the specific code to the other printing area (see column 4 line 38-column 5 line 7 and column 11 lines 26-46).

Regarding claim 11, Lopez further discloses wherein the printing unit prints character strings indicating the access data extracted by the data extraction unit, as the specific code (see column 7 lines 14-21) and when the specific code read together with the command content by the reading unit is the character string indicating the access data, the data specifying unit specifies the access data indicated by the character string, as the access data corresponding to each entry column having the command content read (see column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Regarding claim 16, Lopez further discloses wherein the printing unit prints the access data of the Web page accessed by the access unit and a third specific code indicating that the access data corresponding to the entry column can be extracted from a specific region of the Web page accessed by the access unit, as the specific code (see column 7 lines 14-21) and when the specific code read together with the command

content by the reading unit includes the third specific code, the data specifying unit instructs the access unit to access the Web page based on the access data indicated by the third specific code, instructs the data extraction unit to extract access data from the specific region of the Web page accessed by the access unit and specifies the access data extracted by the data extraction unit as the access data corresponding to the entry column having the command content read (see column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Regarding claim 18, Lopez further discloses wherein the printing unit prints character strings indicating the access data extracted by the data extraction unit, as the specific code (see column 7 lines 14-21).

Regarding claim 21, Lopez further discloses wherein the printing unit prints a third specific code indicating that the access data of the Web page accessed by the access unit and the access data corresponding to the entry column can be extracted from a specific region of the Web page accessed by the access unit, as the specific code (see column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Regarding claim 23, Lopez further discloses an access unit configured to access a Web page through the network (see column 3 lines 40-65 and column 4 lines 20-30), and a printing unit configured to print an image of the Web page accessed by the access unit on a printing medium (see column 4 line 63-column 5 line 7, column 5 lines 15-35, and column 11 lines 26-46), wherein when the command content read by the reading unit includes a request to print an access destination page, the process

execution unit instructs the access unit to access the access destination page based on the access data and instructs the printing unit to print the access destination page accessed by the access unit (see column 5 lines 15-35).

Regarding claim 27, Lopez further discloses wherein the reading unit reads entry positions of the entry column in the printing medium and the specific code from the reading medium (see column 5 lines 8-35, column 6 lines 21-30, and column 11 lines 26-46) and the process execution unit executes processes corresponding to the entry positions read by the reading unit, for the access data specified by the data specifying unit (see column 4 lines 38-62 and column 5 lines 15-35).

Regarding claim 28, Lopez further discloses wherein when the specific code read together with the command content by the reading unit includes character strings indicating the access data, the data specifying unit specifies the access data indicated by the character strings as the access data corresponding to the entry column having the command content read (see column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Regarding claim 29, Lopez further discloses wherein when the specific code read together with the command content by the reading unit includes a third specific code indicating that the access data of a specific Web page and the access data corresponding to the entry column can be extracted from a specific region of the specific Web page, the data specifying unit instructs the access unit to access the specific Web page based on the access data indicated by the third specific code, instructs the data extraction unit to extract access data from the specific region of the specific Web page

accessed by the access unit and specifies the access data extracted by the data extraction unit as the access data corresponding to the entry column having the command content read (see column 4 lines 38-62, column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 4-5, 12-15, 19-20, and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lopez as applied to claims 1, 17, and 22 above, and further in view of U.S. Patent No. 6,029,182 to Nehab et al.

Regarding claims 4 and 25, Lopez discloses a data recording unit configured to record various pieces of data (see column 7 lines 31-35, reference discloses the storing of proof sheets in an archive **126** for later access).

Lopez does not disclose expressly wherein when the command content read by the reading unit includes a request to record the access data, the process execution unit instructs the data recording unit to record the access data.

Nehab discloses a data recording unit configured to record various pieces of data, wherein when the command content read by the reading unit includes a request to

record the access data, the process execution unit instructs the data recording unit to record the access data (see column 12 lines 5-36 and column 13 lines 56-65).

Regarding claims 5 and 26, Lopez discloses a data recording unit configured to record various pieces of data (see column 7 lines 31-35, reference discloses the storing of proof sheets in an archive **126** for later access).

Lopez does not disclose expressly wherein when the command content read by the reading unit includes a request to record the access destination page as data, the process execution unit instructs the access unit to access the access destination page on the basis of the access data and instructs the data recording unit to record the access destination page accessed by the access unit as data.

Nehab discloses a data recording unit configured to record various pieces of data, wherein when the command content read by the reading unit includes a request to record the access destination page as data, the process execution unit instructs the access unit to access the access destination page on the basis of the access data and instructs the data recording unit to record the access destination page accessed by the access unit as data (see column 12 lines 5-36 and column 13 lines 56-65).

Regarding claim 12, Lopez discloses a data recording unit configured to record various pieces of data (see column 7 lines 31-35, reference discloses the storing of proof sheets in an archive **126** for later access), the printing unit prints a first specific code indicating that the access data corresponding to the entry column can be specified on the basis of the access data recorded by the data recording unit, as the specific code (see column 7 lines 14-21), and when the specific code read together with the

command content by the reading unit includes the first specific code, the data specifying unit specifies the access data corresponding to the entry column on the basis of the associative data recorded by the data recording unit (see column 4 lines 38-62, column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Lopez does not disclose expressly an associative record instruction unit configured to instruct the data recording unit to record associative data indicating correspondence of the access data extracted by the data extraction unit to the entry column printed by the printing unit.

Nehab discloses a data recording unit configured to record various pieces of data (see column 12 line 65-column 13 line 12), an associative record instruction unit configured to instruct the data recording unit to record associative data indicating correspondence of the access data extracted by the data extraction unit to the entry column printed by the printing unit (see Fig. 9B and column 12 line 65-column 13 line 12), and the printing unit prints a first specific code indicating that the access data corresponding to the entry column can be specified on the basis of the associative data recorded by the data recording unit, as the specific code (see Fig. 9B and column 15 lines 28-35).

Regarding claim 13, Lopez discloses the printing unit prints the first specific code indicating that the access data corresponding to the entry column can be specified (see column 7 lines 14-21) and when the specific code read together with the command content by the reading unit includes the first specific code, the data specifying unit specifies the access data corresponding to the entry column on the basis of the specific

associative data in the plurality of associative data recorded by the data recording unit (see column 4 lines 38-62, column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Lopez does not disclose expressly the associative record instruction unit instructs the data recording unit to record a plurality of the associative data different according to Web pages accessed by the access unit and the printing unit prints the first specific code indicating that the access data corresponding to the entry column can be specified on the basis of specific associative data in the plurality of associative data recorded by the data recording unit.

Nehab discloses the associative record instruction unit instructs the data recording unit to record a plurality of the associative data different according to Web pages accessed by the access unit (see Fig. 9B, column 12 line 65-column 13 line 12, and column 15 lines 28-35) and the printing unit prints the first specific code indicating that the access data corresponding to the entry column can be specified on the basis of specific associative data in the plurality of associative data recorded by the data recording unit (see Fig. 9B and column 15 lines 28-35).

Regarding claim 14, Lopez discloses a data recording unit configured to record various pieces of data (see column 7 lines 31-35, reference discloses the storing of proof sheets in an archive **126** for later access), the printing unit prints a second specific code indicating that the access data corresponding to the entry column can be extracted from a specific region of the Web page accessible on the basis of the access data recorded by the data recording unit, as the specific code (see column 7 lines 14-21),

and when the specific code read together with the command content by the reading unit includes the second specific code, the data specifying unit instructs the access unit to access the Web page based on the access data recorded by the data recording unit, instructs the data extraction unit to extract access data from the specific region of the Web page accessed by the access unit and specifies the access data extracted by the data extraction unit as the access data corresponding to the entry column having the command content read (see column 4 lines 38-62, column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Lopez does not disclose expressly an access record instruction unit configured to instruct the data recording unit to record the access data of the Web page accessed by the access unit.

Nehab discloses a data recording unit configured to record various pieces of data (see column 12 line 65-column 13 line 12) and an access record instruction unit configured to instruct the data recording unit to record the access data of the Web page accessed by the access unit (see Fig. 9B and column 12 line 65-column 13 line 12).

Regarding claim 19, Lopez discloses a data recording unit configured to record various pieces of data (see column 7 lines 31-35, reference discloses the storing of proof sheets in an archive **126** for later access), wherein the printing unit prints a second specific code indicating that the access data corresponding to the entry column can be extracted from a specific region of the Web page accessible on the basis of the access data recorded by the data recording unit, as the specific code (see column 7 lines 14-21).

Lopez does not disclose expressly an access record instruction unit configured to instruct the data recording unit to record the access data of the Web page accessed by the access unit.

Nehab discloses a data recording unit configured to record various pieces of data (see column 12 line 65-column 13 line 12) and an access record instruction unit configured to instruct the data recording unit to record the access data of the Web page accessed by the access unit (see Fig. 9B and column 12 line 65-column 13 line 12).

Lopez & Nehab are combinable because they are from the same field of endeavor, printing data located on a web server.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the recording unit, as described by Nehab, and which is well known and commonly used in the art, with the system of Lopez.

The suggestion/motivation for doing so would have been to store web page related information that can easily and conveniently be accessed at a later time by a user and subsequently execute printing when a user desires.

Therefore, it would have been obvious to combine Nehab with Lopez to obtain the invention as specified in claim 4-5, 12-14, 19, and 25-26.

Regarding claim 15, Lopez further discloses wherein the printing unit prints the second specific code indicating that the access data corresponding to the entry column can be extracted from the specific region of the Web page accessible on the basis of the specific access data in the plurality of access data recorded by the data recording

unit (see column 7 lines 14-21) and when the specific code read together with command content by the reading unit includes the second specific code, the data specifying unit specifies the access data extracted by the data extraction unit from the Web page accessed on the basis of the specific access data in the plurality of access data recorded by the data recording unit, as the access data corresponding to the entry column (see column 4 lines 38-62, column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

Regarding claim 20, Lopez further discloses wherein the printing unit prints the second specific code indicating that the access data corresponding to the entry column can be extracted from a specific region of specific access data in the access data recorded by the data recording unit (see column 5 lines 8-35, column 6 lines 21-30, column 7 lines 14-21, and column 11 lines 26-46).

8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lopez as applied to claim 9 above, and further in view of Nehab.

Lopez does not disclose expressly wherein the printing unit configures the one printing area and the other printing area on an upper part and a lower part of the printing medium, respectively.

Nehab discloses wherein the printing unit configures the one printing area and the other printing area on an upper part and a lower part of the printing medium, respectively (see column 15 lines 35-40).

Lopez & Nehab are combinable because they are from the same field of endeavor, printing data located on a web server.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the printing area configuration, as described by Nehab, which is really just a design choice, further, the ability to create such configurations are well known and used in the art, with the system of Lopez.

The suggestion/motivation for doing so would have been to provide an aesthetically pleasing and user friendly printouts to allow the user to easily understand and manipulate the entry areas.

Therefore, it would have been obvious to combine Nehab with Lopez to obtain the invention as specified in claim 10.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. To further show the state of the art please refer to the attached Notice of References Cited.

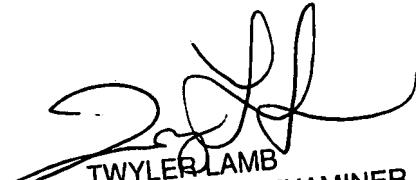
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached at (571) 272-7406. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark R. Milia
Examiner
Art Unit 2625

MRM



TWYLER LAMB
SUPERVISORY PATENT EXAMINER